

## Datasheet: 4690-3999A

<b>Description:</b>	SHEEP ANTI BOVINE GLUTATHIONE PEROXIDASE:Alk. Phos.
<b>Specificity:</b>	GLUTATHIONE PEROXIDASE
<b>Format:</b>	Alk. Phos.
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	1 ml

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			1/100 - 1/250

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Bovine
<b>Species Cross Reactivity</b>	Based on sequence similarity, is expected to react with:Human <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	Antisera to bovine glutathione peroxidase were raised by repeated immunisations of sheep with highly purified antigen. Purified IgG prepared by affinity chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	1% Bovine Serum Albumin
<b>Immunogen</b>	Glutathione peroxidase from bovine erythrocytes.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P00435</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">281209</a>   GPX1   <a href="#">Related reagents</a></p>
<b>Specificity</b>	<b>Sheep anti Bovine glutathione peroxidase antibody</b> detects human glutathione peroxidase

(GSH-Px), a selenium-containing tetrameric enzyme found in mammalian erythrocytes. GSH-Px has an important role in protecting cellular and subcellular membranes from oxidative damage, and functions to detoxify peroxide through the reduction of hydrogen peroxide and organic peroxides.

An increase in GSH-Px in tumour cells may be associated with resistance to drugs that act by generating reactive oxygen species, for example doxorubicin.

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**References**

1. Kankofer, M. *et al.* (2013) The presence of SOD 1 and GSH-Px in bovine retained and properly released foetal membranes. [Reprod Domest Anim. 48 \(4\): 699-704.](#)

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**Further Reading**

1. MILLS, G.C. (1957) Hemoglobin catabolism. I. Glutathione peroxidase, an erythrocyte enzyme which protects hemoglobin from oxidative breakdown. [J Biol Chem. 229 \(1\): 189-97.](#)

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**Storage**

Store at +4°C. DO NOT FREEZE.  
This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Shelf Life**

18 months from date of despatch.

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**Health And Safety Information**

Material Safety Datasheet Documentation #10041 available at: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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**Regulatory**

For research purposes only

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